

LITTLE COLORADO RIVER BASIN

09401245 KETHLA VALLEY TRIBUTARY NEAR KAYENTA, AZ

LOCATION.--Lat 36°29'53", long 110°37'15", Navajo County, Hydrologic Unit 15020018, at State Highway 64, 15.5 mi southwest of Tsegi Trading Post, and 26 mi southwest of Kayenta.

DRAINAGE AREA.--0.79 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1962	00-00-62	175		1970	09-05-70	137	
1963	08-06-63	109		1971	08-00-71	290	
1964	08-00-64	128		1972	09-02-72	250	
1965	00-00-65	23		1973	10-00-72	225	
1966	11-2-65	12	LT	1974	07-22-74	114	
1967	07-30-67	80		1975	07-11-75	57	
1968	07-25-68	195		1976	00-00-76	0.3	ES
1969	09-00-69	94					

Magnitude and probability of instantaneous peak flow based on period of record 1962-76

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
121	193	244	312	365	419
Weighted skew	(logs) =	-0.14			
Mean	(logs) =	2.08			
Standard dev.	(logs) =	0.25			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
87.7	2.3	6,730	21.0	3.0	10.2	1.3	2.8

